In The Claims:

1. (Original) A method of controlling an automotive vehicle having a turning radius comprising:

determining a steering wheel angle;

determining a steering wheel direction;

determining a steering wheel angular rate and

applying brake-steer as a function of steering wheel angle, steering wheel angular rate and steering wheel direction.

- 2. (Original) A method as recited in claim 1 further comprising determining a vehicle speed and wherein applying brake-steer comprises applying brake-steer as a function of steering wheel angle, steering wheel rate, steering wheel direction and said vehicle speed.
- 3. (Original) A method as recited in claim 1 wherein the steering wheel direction comprises an increasing direction and a decreasing direction wherein applying brake-steer using a first boost curve in a first direction and applying brake-steer using a second boost curve in a second direction wherein the first boost curve is different than the second boost curve.
- 4. (Original) A method as recited in claim 3 wherein the first boost curve comprises a non-linear-boost curve.
- 5. (Original) A method as recited in claim 3 wherein the first boost curve increases brake-steer at a first rate for a first period of time, increases brake-steer at a second rate for a second period of time, wherein the second rate is greater than the first rate, and increases brake-steer at third rate for a third period of time, wherein the third rate is less than the second rate.
- 6. (Original) A method as recited in claim 3 wherein the second boost curve comprises a non-linear-boost curve.
- 7. (Original) A method as recited in claim 3 wherein the second boost curve decreases brake-steer at a first rate for a first period of time and decreases brake-steer at a second rate for a second period of time, wherein the second rate is less than the first rate.
- 8. (Original) A method as recited in claim 1 wherein applying brake-steer reduces the turning radius of the vehicle.
- 9. (Original) A method as recited in claim 8 wherein applying brake-steer comprises applying at least one brake at a first wheel to reduce the vehicle turning radius.
- 10. (Original) A method as recited in claim 9 wherein applying brake-steer comprises applying an increased drive torque to a second wheel.

- 11. (Original) A method as recited in claim 1 further comprising detecting a parking mode, and applying brake-steer as a function of the parking mode, steering wheel angular rate and steering wheel direction.
 - 12. (Original) A method of controlling an automotive vehicle comprising: detecting a parking mode;

in the parking mode, when the steering wheel angle is increasing applying brakesteer using a first boost curve; and

when the steering wheel angle is decreasing applying brake-steer using a second boost curve different than the first boost curve.

- 13. (Original) A method as recited in claim 12 wherein applying brake-steer comprise a function of a steering wheel angle, a steering wheel angular rate and a steering wheel direction.
- 14. (Original) A method as recited in claim 12 further comprising determining a vehicle speed and wherein applying a brake-steer comprises applying brake-steer as a function of a steering wheel angle, a steering wheel rate, a steering wheel direction and a vehicle speed.
- 15. (Original) A method as recited in claim 12 wherein the first boost curve comprises a non-linear-boost curve.
- 16. (Original) A method as recited in claim 12 wherein the first boost curve increases brake-steer at a first rate for a first period of time, increases brake-steer at a second rate for a second period of time, wherein the second rate is greater than the first rate and increases brake-steer at third rate for a third period of time wherein the third rate is less than the second rate.
- 17. (Original) A method as recited in claim 12 wherein the second boost curve Comprises a non-linear-boost curve.
- 18. (Original) A method as recited in claim 12 wherein the second boost curve decreases brake-steer at a first rate for a first period of time and decreases brake-steer at a second rate for a second period of time, wherein the second rate is less than the first rate.
- 19. (Original) A method as recited in claim 12 wherein applying brake-steer comprises applying at least one brake at a first wheel to reduce a vehicle turning radius of the Vehicle; and

simultaneously with the step of applying at least one brake, applying drive torque to a second wheel.

20. (Original) A method as recited in claim 12 wherein detecting a parking mode comprises detecting a parking mode in response to a vehicle speed.

- 21. (Original) A method as recited in claim 12 wherein detecting a parking mode comprises detecting a parking mode in response to a steering wheel angle.
- 22. (Original) A method as recited in claim 12 wherein detecting a parking mode comprises detecting a parking mode in response to a vehicle speed and a steering angle.
- 23. (Original) A method as recited in claim 12 wherein detecting a parking mode comprises detecting a parking mode in response to a driver-actuated switch.
- 24. (Original) A method as recited in claim 12 further comprising determining a surface mu, wherein applying brake-steer comprises applying brake-steer in response to the surface mu to reduce a vehicle turning radius.
- 25. (Original) A method as recited in claim 12 further comprising determining a Vehicle load, wherein applying brake-steer comprises applying brake-steer at a first wheel in response to the vehicle load to reduce a vehicle turning radius.
- 26. (Original) A method as recited in claim 12 further comprising determining a throttle position, wherein applying brake-steer comprises applying brake-steer in response to the throttle position to reduce a vehicle turning radius.
- 27. (Original) A method as recited in claim 12 wherein applying brake-steer comprises applying at brake-steer as a function of an anti-lock brake system.
- 28. (Original) A method as recited in claim 12 wherein applying brake-steer comprises applying brake-steer as a function of a traction control system.
- 29. (Original) A method of controlling an automotive vehicle having a turning radius comprising:

detecting a parking mode;

in the parking mode, applying a first positive torque to a first driven wheel; and simultaneously with the step of applying a first positive torque, applying a second positive torque greater than the first positive torque to a second wheel so that the turning radius of the vehicle is reduced.

- 30. (Original) A method as recited in claim 29 further comprising determining a brake pressure request, and discontinuing the steps of applying a first positive torque and a second positive torque when said request is greater than a predetermined threshold.
- 31. (Original) A method as recited in claim 29 wherein detecting a parking mode comprises detecting a parking mode in response to a vehicle speed.
- 32. (Original) A method as recited in claim 29 wherein detecting a parking mode comprises detecting a parking mode in response to a steering wheel angle.

- 33. (Original) A method as recited in claim 29 wherein detecting a parking mode comprises detecting a parking mode in response to a map correlating vehicle speed and a steering wheel rate to a parking/non-parking condition.
- 34. (Original) A method as recited in claim 29 wherein detecting a parking mode comprises activation of a switch mechanism.
- 35. (Original) A method as recited in claim 29 wherein applying a second positive torque comprises applying the second positive torque as a function of a traction control system.
- 36. (Original) A method as recited in claim 29 further comprising switching from a 4x4 mode into a 4x2 mode when applying the second positive torque.
- 37. (Original) A method as recited in claim 29 wherein determining a parking mode comprises determining a parking mode in response to a steering system pressure.
- 38. (Original) A method of enhancing the turning ability of a vehicle having a steering mechanism comprising:

determining a driver selectable mode;

generating a steering enhance signal in response to the driver selectable mode; and

actuating at least one brake on one side of the vehicle in response to said steering enhance signal to enhance the turning radius achieved by the steering mechanism.

- 39. (Original) A method as recited in claim 38 wherein determining a driver selectable mode comprises determining a driver selectable mode in response to a switch mechanism.
- 40. (Original) A method as recited in claim 38 wherein actuating comprises actuating a first brake.
- 41. (Original) A method as recited in claim 38 wherein actuating comprises actuating a first brake and a second brake.
- 42. (Original) A method as recited in claim 38 wherein actuating comprises actuating a first brake at a first wheel and further comprising applying a positive engine torque at a second wheel.
- 43. (Original) A method as recited in claim 38 wherein activating a least one brake comprises activating at least one brake in response to an anti-lock brake system.
- 44. (Original) A method of controlling an automotive vehicle having a turning radius comprising:

detecting a parking mode;

detecting a transfer case mode;

applying brake-steer in response to a parking mode and a transfer case mode.

- 45. (Original) A method as recited in claim 44 wherein applying brake-steer comprises proportioning front wheel and rear wheel brakes based on the transfer case mode.
- 46. (Original) A method as recited in claim 44 wherein detecting a parking mode comprises detecting a parking mode in response to a vehicle speed.
- 47. (Original) A method as recited in claim 44 wherein detecting a parking mode comprises detecting a parking mode in response to a steering wheel angle.
- 48. (Original) A method as recited in claim 44 wherein detecting a parking mode comprises detecting a parking mode in response to a map correlating vehicle speed and a steering wheel rate to a parking/non-parking condition.
- 49. (Original) A method as recited in claim 44 wherein detecting a parking mode comprises detecting a parking mode in response to a driver-actuated switch.
- 50. (Original) A method as recited in claim 44 wherein applying brake-steer comprises applying an increased drive torque to a second wheel relative to a first wheel.
- 51. (Original) A method as recited in claim 44 wherein applying brake-steer comprises applying brake-steer to a front wheel.
- 52. (Original) A method as recited in claim 44 wherein applying brake-steer comprise proportioning brake-steer between a front wheel and a rear wheel.
 - 53. (Original) A vehicle comprising: means to determine a parking mode; and
- a controller coupled to the means to determine a parking mode, said controller programmed to, in the parking mode, apply a first positive torque to a first driven wheel and simultaneously with applying the first positive torque, apply a second positive torque greater than the first positive torque to a second wheel so that the turning radius of the vehicle is reduced.
- 54. (Original) A vehicle as recited in claim 53 further comprising a traction Control system, wherein the first positive torque is a function of the traction control system.
- 55. (Original) A vehicle as recited in claim 53 wherein the means to determine a Parking mode comprises detecting a parking mode in response to a vehicle speed.
- 56. (Original) A vehicle as recited in claim 53 the means to determine a parking mode comprises detecting a parking mode in response to a steering wheel angle.

- 57. (Original) A vehicle as recited in claim 53 wherein the means to determine a parking mode comprises detecting a parking mode in response to a vehicle speed and a steering angle.
- 58. (Original) A vehicle as recited in claim 53 wherein the means to determine a parking mode comprises detecting a parking mode in response to a driver-actuated switch.
- 59. (Original) A vehicle as recited in claim 53 further comprising a transfer case having a 4x2 mode and a 4x4 mode, said controller selecting 4x2 mode when applying a second positive torque.
- 60. (Original) A method as recited in claim 53 wherein the vehicle comprises an open differential or a limited slip differential.
- 61. (Original) A vehicle as recited in claim 53 wherein the means to determine a parking mode comprises a steering system pressure sensor.